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[Operator scheduling in a data stream manager](#)[psu.edu \(PDF\)](#)

D Carney, U Cetintemel, A Rasin, S Zdonik, ... - Proceedings of the ..., 2003 - portal.acm.org  
 ... Depth of a query specifies the number of levels in the application **tree** and fan-out specifies the average number of children for each box. ... Using this box, we can model a variety of stateless **stream**-based **operators** such as filter, map, and union. ...

[Cited by 176](#) - [Related articles](#) - [BI Direct](#) - [All 35 versions](#)[\[PDF\] Design of forest riparian buffer strips for the protection of water quality: Analysis of scientific literature](#)[wildrockies.org \(PDF\)](#)

GH Belt, JO Laughlin, T Merrill - Idaho Forest, Wildlife and ..., 1992 - maps.wildrockies.org  
 ... attention. The method of yarding and the care equipment **operators** take are, of course, important considerations. ... slope. Another model estimates the probability a riparian **tree** would contribute LOD to the **stream** channel. These ...

[Cited by 70](#) - [Related articles](#) - [All 3 versions](#)[Chain: Operator scheduling for memory minimization in data stream systems](#)[psu.edu \(PDF\)](#)

B Babcock, S Babu, R Motwani, M ... - Proceedings of the 2003 ..., 2003 - portal.acm.org  
 ... aim of this paper is to design scheduling strategies that will form the core of a resource manager in a data **stream** system. ... Thus queries can be represented as rooted **trees**. Every **operator** is a filter that operates on a tuple and produces s tuples, where s is the **operator** selectivity. ...

[Cited by 193](#) - [Related articles](#) - [All 33 versions](#)[The BSD packet filter: A new architecture for user-level packet capture](#)[psu.edu \(PDF\)](#)

S McCanne, V Jacobson - Proceedings of the USENIX Winter 1993 ..., 1993 - portal.acm.org  
 ... module and, thus, the capture module must copy data to **STREAM buffers** to send it up the **stream** to the ... In the **tree** model each node represents a boolean operation while the leaves represent test predicates on packet fields. The edges represent **operator**-operand relationships. ...

[Cited by 805](#) - [Related articles](#) - [All 77 versions](#)[A query algebra for fragmented XML stream data](#)[psu.edu \(PDF\)](#)

S Bose, L Fegaras, D Levine, V Chaituvadi - Database Programming ..., 2004 - Springer  
 ... Each n-ary algebraic **operator** op in the algebraic **tree** of a query is associated with  $n + 1$  binding ... The **operator** then recursively processes the remaining **stream** of records. ... failed predicate) or  $\perp$  (presence of a hole), then the fragment record  $t$  is not released to the output **stream**. ...

[Cited by 28](#) - [Related articles](#) - [BI Direct](#) - [All 12 versions](#)

## Models and issues in data stream systems

B Babcock, S Babu, M Datar, R Motwani, J ... - Proceedings of the ... , 2002 - portal.acm.org  
... If one thinks about evaluating continuous **stream** queries using a traditional **tree** of query **operators**, where data streams enter at the leaves and final query answers are produced at the root, then the incorporation of blocking **operators** into the query **tree** poses problems. ...  
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## Maximizing the output rate of multi-way join queries over streaming information sources

SD Viglas, JF Naughton, J Burger - Proceedings of the 26th ... , 2003 - portal.acm.org  
... Once the **stream** slowed down, the output rates were reversed, and when the **stream** re- turned to its initial rate, the original relative performance again appeared. This validates our intuition that while it is impossible to pick a single **tree** of binary **operators** that is always ...  
[Cited by 161](#) - [Related articles](#) - [BL Direct](#) - [All 22 versions](#)

## Fine sediment deposition in streams after selective forest harvesting without riparian buffers

DP Kreutzweiser, SS Capelli - Canadian Journal of ... , 2001 - article.pubs.nrc-cnrc.gc.ca  
... tired skidders. While opera- tors were careful to avoid driving machinery into or across **stream** beds, no **buffer** zones were established along the streams and there were no restrictions on taking marked **trees** from **stream** sides. ...  
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## Encapsulation of parallelism in the Volcano query processing system

G Graefe - ACM SIGMOD Record, 1990 - portal.acm.org  
... the xt for the top-most **operator** IS called repeatedly until it falls with an end of **stream** mdica- tor ... m the E pro- gramming language design [24] and the algebraic query evaluation system of the Starburst extensible relational data- base system [22] The **tree**-structured query ...  
[Cited by 287](#) - [Related articles](#) - [All 12 versions](#)

## Environmental benefits of poplar culture

JG Isebrands, DF Karnosky - Poplar Culture in North America, 2001 - books.google.com  
... genera being used for phytoremediation because they grow rapidly, are easily propagated, and adapt well to riparian sites. ... Note wastewater emitter to the right of the **tree** in the foreground. **operators** are using hybrid poplars as an alternative for applying wastewater to their land ...  
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[Encapsulation of parallelism in the Volcano query processing system](#)[colorado.edu](#) [PDF]G Graefe - ACM SIGMOD Record, 1990 - [portal.acm.org](#)

... ' This **statement** only pertains to ... indicator After receiving three tagged packets, X's next procedure  
 will Ao ~111 indicate end-of-stream to A When end-of-stream reaches the root **operator** of the **query**,  
 A, the **query tree** is closed Closing the exchange **operator** X includes ...

[Cited by 287](#) - [Related articles](#) - [All 12 versions](#)[An overview of query optimization in relational systems](#)[psu.edu](#) [PDF]S Chaudhuri - Proceedings of the seventeenth ACM SIGACT- ..., 1998 - [portal.acm.org](#)

... evaluation. Finally, such a representation does not capture the fact that SQL **statements**  
 may have nested **query** blocks. ... nodes. (b) Use of a rule engine that allows transformations  
 to modify the **query** expression or the **operator trees**. Such ...

[Cited by 287](#) - [Related articles](#) - [BL Direct](#) - [All 52 versions](#)[Issues in data stream management](#)[psu.edu](#) [PDF]L Golub, MT Özsu - ACM Sigmod Record, 2003 - [portal.acm.org](#)

... The loop contains a Windows **statement** that specifies the type and size of the window. ... 5.2  
 Continuous **Query** Plans In relational DBMSs, all **operators** are pull-based: an **operator**  
 requests data from one of its children in the plan **tree** only when needed. ...

[Cited by 554](#) - [Related articles](#) - [BL Direct](#) - [All 31 versions](#)[Extensible query processing in Starburst](#)[psu.edu](#) [PDF]LM Haas, JC Freytag, GM Lohman, H ... - ACM SIGMOD ..., 1989 - [portal.acm.org](#)

... Likewise, queries with set operations may appear wherever a select **statement** can be used --  
 in view ... of the relational algebra (eg, JOIN, UNION, etc.), supplemented with physical **operators**  
 such as ... A Starburst **query** evaluation plan (QEP) is a nesting of invocations of LOLEPOPs ...

[Cited by 332](#) - [Related articles](#) - [All 22 versions](#)[\[PDF\] Design and implementation of stream operators, query instantiator and stream buffer manager](#)[uia.edu](#) [PDF]

A Gilani - 2003 - [cse.uta.edu](#)

... representation. It can be added as part of standard SQL **statement**. It ... They are the bridge, which connects the **operators** to make the **query tree**. Data flows from the **stream** into the **buffers**, this act as an input to the **operators**, which produces new data ...

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### Garlic: a new flavor of federated **query** processing for DB2

V Josifovski, P Schwarz, L Haas, E Lin - Proceedings of the 2002 ..., 2002 - [portal.acm.org](#)

... Once the information from the DDL **statement** has been val- idated and merged with any additional information supplied by the ... select list expression makes the plan un- usable, since without the necessary column value some **query** expression in the **operator tree** cannot be ...

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### Second-order signature: a tool for specifying data models, **query** processing, and optimization

[psu.edu](#) [PDF]

RH Gitting - ACM SIGMOD Record, 1993 - [portal.acm.org](#)

... On the other hand, the algebras specified are also to serve as readable **query** languages (without syntactic sugar but still with a somewhat pleasing ap earance). To this end we allow to f specify a syntax pattern or each **operator** which, together with some slightly relaxing rules ...

[Cited by 74](#) - [Related articles](#) - [BL Direct](#) - [All 11 versions](#)

### [PDF] Reducing the braking distance of an SQL **query** engine

[psu.edu](#) [PDF]

MJ Carey, D Kossmann - Proceedings of the International Conference on ..., 1998 - Citeseer

... Similarly, Microsoft SQL Server provides an OPTION FAST n clause and a session-level SET ROWCOUNT n **statement** for these ... Figure 3: Range Partitioning Plans for **Query 1** ... re-initializing its in- put **operator** (ie, the table scan in the example) or its in- put **operator tree** (for more ...

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### Chain: **Operator** scheduling for memory minimization in data **stream** systems

[psu.edu](#) [PDF]

B Babcock, S Babu, R Motwani, M ... - Proceedings of the 2003 ..., 2003 - [portal.acm.org](#)

... **query operators** into **operator** chains corre- sponding to segments in the lower envelope of the **query** progress chart ... We can combine the preceding observations to prove a **statement** about the near-optimality of Chain on ... For the important case where all **operator** selectivities are ...

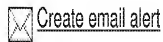
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### SRS--an indexing and retrieval tool for flat file data libraries

T Etzold, P Argos - Bioinformatics, 1993 - Oxford Univ Press

... short name of the index, the symbol ':', and a key or a combination of keys separated by the logical **operators** discussed previously. ... A key in the retrieval **statement** may bear the symbol '\*' (wildcard) at the end such that the key refers to all ... A | Ha t | Hani Library | **Query 1** | **Query 2** ...

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